

10	20	30	40	50	60	70	80	90	100
GAATTCACCATGCAGCTCTTCTCCTCTTGTGCCTGGTGCTTCTCAGCCCTCAGGGGGCCTCCCTTCACCGCCACCACCCCGGGAGATGAAGAAGAGA									
M Q L F L L L C L V L L S P Q G A S L H R H H P R E M K K R									
110	120	130	140	150	160	170	180	190	200
GTCGAGGACCTCCATGTAGGTGCCACGGTGGCCCCCAGCAGCAGAAGGGACTTTACCTTCGACCTCTACAGGGTCTTGGCTTCGGCTGCCCCAGCCAGA									
V E D L H V G A T V A P S S R R D F T F D L Y R V L A S A A P S Q N									
210	220	230	240	250	260	270	280	290	300
ATATCTTCTTCTCCCTGTGAGCATCTCCATGAGCCTGGCCATGCTCTCCCTGGGGGCTGGGTCCAGCACAAAGATGCAGATCCTGGAGGGCCTGGGCCT									
I F F S P V S I S M S L A M L S L G A G S S T K M Q I L E G L G L									
310	320	330	340	350	360	370	380	390	400
CAACCTCCAGAAAAGCTCAGAGGAGGAGCTGCACAGAGGGCTTTCAGCAGCTCCTTCAGGAAGTCAACAGCCAGAGATGGCTTCCAGCTGAGCCTCGGC									
N L Q K S S E E E L H R G F Q Q L L Q E L N Q P R D G F Q L S L G									
410	420	430	440	450	460	470	480	490	500
AATGCCCTTTTCACCGACCTGGTGGTAGACCTGCAGGACACCTTCGTAAGTGCCATGAAGACGCTGTACCTGGCAGACACTTTCCCACTCACTTTAGGG									
N A L F T D L V V D L Q D T F V S A M K T L Y L A D T F P T N F R D									
510	520	530	540	550	560	570	580	590	600
ACTCTGCAGGGGCATGAAGCAGATCAATGATTATGTGGCAAAGCAAAGGGAAGATTGTGGAAGTCTTAAAGACCTCGATAGCAATGCGGTGCT									
S A G A M K Q I N D Y V A K Q T K G K I V D L L K N L D S N A V V									
610	620	630	640	650	660	670	680	690	700
GATCATGGTGAATTACATCTTCTTTAAAGCTAAGTGGGAGACAAGCTTCAACCACAAAGGCACCCAGAGCAAGACTTCTACGTGACCTCGGAGACTGTG									
I M V N Y I F F K A K W E T S F N H K G T Q E Q D F Y V T S E T V									
710	720	730	740	750	760	770	780	790	800
GTGCGGGTACCCATGATGAGCCGCGAGGATCAGTATCACTACCTCCTGGACCGGAACCTCTCCTGCAGGGTGGTGGGGTCCCCTACCAAGGCAATGCCA									
V R V P M M S R E D Q Y H Y L L D R N L S C R V V G V P Y Q G N A T									
810	820	830	840	850	860	870	880	890	900
CGGCTTTGTTCACTTCTCCCAAGTGAAGGAAAGATGCAGCAGGTGGAGAATGGACTGAGTGAGAAAACGCTGAGGAAGTGGCTTAAGATGTTCAAAAAGAG									
A L F I L P S E G K M Q Q V E N G L S E K T L R K W L K M F K K R									
910	920	930	940	950	960	970	980	990	1000
GCAGCTCGAGCTTTACCTTCCCAAATTCTCCATTGAGGGCTCCTATCAGCTGGAGAAAGTCCCTCCCAAGTCTGGGGATCAGTAACGTCTTCACCTCCCAT									
Q L E L Y L P K F S I E G S Y Q L E K V L P S L G I S N V F T S H									
1010	1020	1030	1040	1050	1060	1070	1080	1090	1100
GCTGATCTGTCCGGCATCAGCAACCACTCAAATATCCAGGTGTCTGAGATGGTGCACAAAGCTGTGGTGGAGGTGGACGAGTCGGGAACCAAGCAGCAGCGG									
A D L S G I S N H S N I Q V S E M V H K A V V E V D E S G T R A A A									
1110	1120	1130	1140	1150	1160	1170	1180	1190	1200
CAGCCACGGGGACAATATTCACTTTTCAGGTGGGGCGCCTGAAGTCTCAGAGGCTAGTGTTCACAGGCCCTTTCTGATGTTCACTTGTGGATAACAACAT									
A T G T I F T F R S A R L N S Q R L V F N R P F L M F I V D N N I									
1210	1220	1230	1240						
CCTCTTCTTGGCAAAGTGAACCGCCCTGAGGATCC									
L F L G K V N R P *									

FIG. 1

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10	20	30	40	50	60	70	80	90	100
GAATTCACCATGCAGCTCTTCTCCTCTTGTGCCTGGTGTCTCAGCCCTCAGGGGGCCTCCCTTCACCGCCACCACCCCGGGAGATGAAGAAGAGA									
M Q L F L L L C L V L L S P Q G A S L H R H H P R E M K K R									
110	120	130	140	150	160	170	180	190	200
GTCGAGGACCTCCATGTAGGTGCCACGGTGGCCCCAGCAGCAGAAGGGACTTTACCTTCGACCTCTACAGGGTCTTGCTTCGGCTGCCCCAGCCAGA									
V E D L H V G A T V A P S S R R D F T F D L Y R V L A S A A P S Q N									
210	220	230	240	250	260	270	280	290	300
ATATCTTCTTCCCTGTGAGCATCTCCATGAGCCTGGCCATGCTCTCCCTGGGGGTGGGTCCAGCACAAGATGCAGATCCTGGAGGGCCTGGGCCT									
I F F S P V S I S M S L A M L S L G A G S S T K M Q I L E G L G L									
310	320	330	340	350	360	370	380	390	400
CAACCTCCAGAAAAGCTCAGAGGAGGAGCTGCACAGAGGGCTTTCAGCAGCTCCTTCAGGAAGTCAACAGCCAGAGATGGCTTCCAGCTGAGCCTCGGC									
N L Q K S S E E E L H R G F Q Q L L Q E L N Q P R D G F Q L S L G									
410	420	430	440	450	460	470	480	490	500
AATGCCCTTTTACCGACCTGGTGGTAGACCTGCAGGACACCTTCGTAAGTGCCATGAAGACGCTGTACCTGGCAGACACTTTCCCACTCACTTTAGGG									
N A L F T D L V V D L Q D T F V S A M K T L Y L A D T F P T N F R D									
510	520	530	540	550	560	570	580	590	600
ACTCTGCAGGGGCCATGAAGCAGATCAATGATTATGTGGCAAAGCAAAGGGCAAGATTGTGGACTTGCTTAAGAACCTCGATAGCAATGCGGTGCT									
S A G A M K Q I N D Y V A K Q T K G K I V D L L K N L D S N A V V									
610	620	630	640	650	660	670	680	690	700
GATCATGGTGAATTACATCTTCTTTAAAGCTAAGTGGGAGACAAGCTTCAACCACAAAGGCACCCAAGAGCAAGACTTCTACGTGACCTCGGAGACTGTG									
I M V N Y I F F K A K W E T S F N H K G T Q E Q D F Y V T S E T V									
710	720	730	740	750	760	770	780	790	800
GTGCGGGTACCCATGATGAGCCGCGAGGATCAGTATCACTACCTCCTGGACCGGAACCTCTCCTGCAGGGTGGTGGGGTCCCCTACCAAGGCAATGCCA									
V R V P M M S R E D Q Y H Y L L D R N L S C R V V G V P Y Q G N A T									
810	820	830	840	850	860	870	880	890	900
CGGCTTTGTTCACTTCTCCCAAGTGAAGGAAAGATGCAGCAGGTGGAGAATGGACTGAGTGAGAAAAGCTGAGGAAGTGGCTTAAGATGTTCAAAAAGAG									
A L F I L P S E G K M Q Q V E N G L S E K T L R K W L K M F K K R									
910	920	930	940	950	960	970	980	990	1000
GCAGCTCGAGCTTTACCTTCCCAAATCTCCATTGAGGGCTCCTATCAGCTGGAGAAAGTCCCTCCCAAGTCTGGGGATCAGTAACGTCTTCACCTCCCAT									
Q L E L Y L P K F S I E G S Y Q L E K V L P S L G I S N V F T S H									
1010	1020	1030	1040	1050	1060	1070	1080	1090	1100
GCTGATCTGTCCGGCATCAGCAACCACTCAAATATCCAGGTGTCTGAGATGGTGCACAAAGCTGTGGTGGAGGTGGACGAGTCGGGAACCAAGCAGCAGCGG									
A D L S G I S N H S N I Q V S E M V H K A V V E V D E S G T R A A A									
1110	1120	1130	1140	1150	1160	1170	1180	1190	1200
CAGCCACGGGGACAATATTCACTTTTCAGGTCCGGCCCGCTGAAGTCTCAGAGGCTAGTGTTCACAGGCCCTTTCTGATGTTCACTTGTGGATAACAACAT									
A T G T I F T F R S A R L N S Q R L V F N R P F L M F I V D N N I									
1210	1220	1230	1240	1250	1260				
CCTCTTCTTGGCAAAGTGAACCGCCCGGATCCGACTACAAGGACGACGATGACAAGTGA									
L F L G K V N R P G S D Y K D D D D K *									

FIG. 2

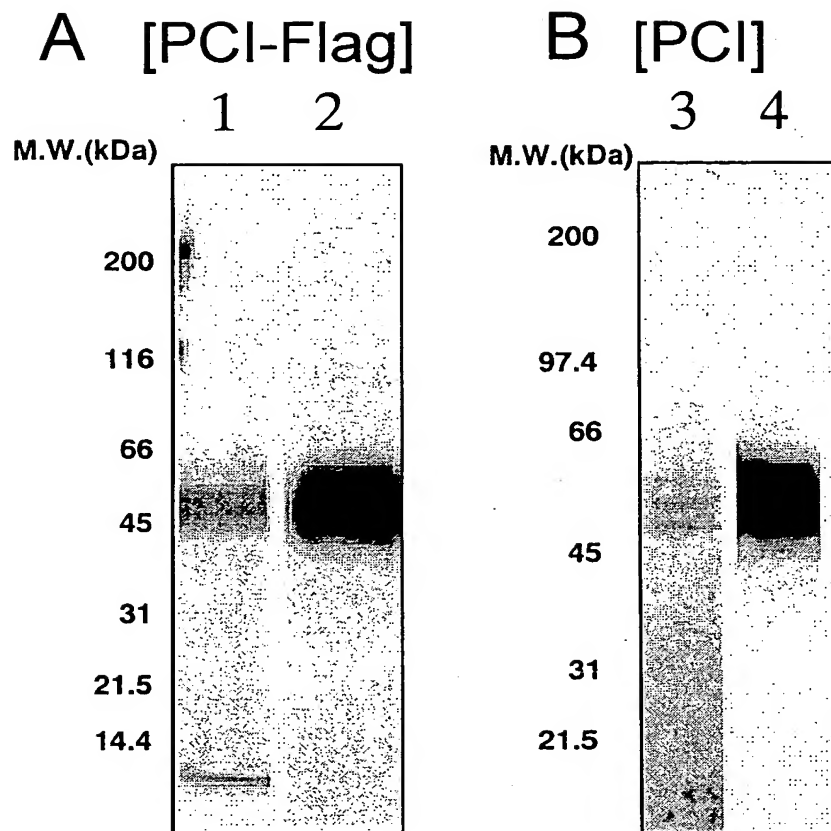


FIG. 3

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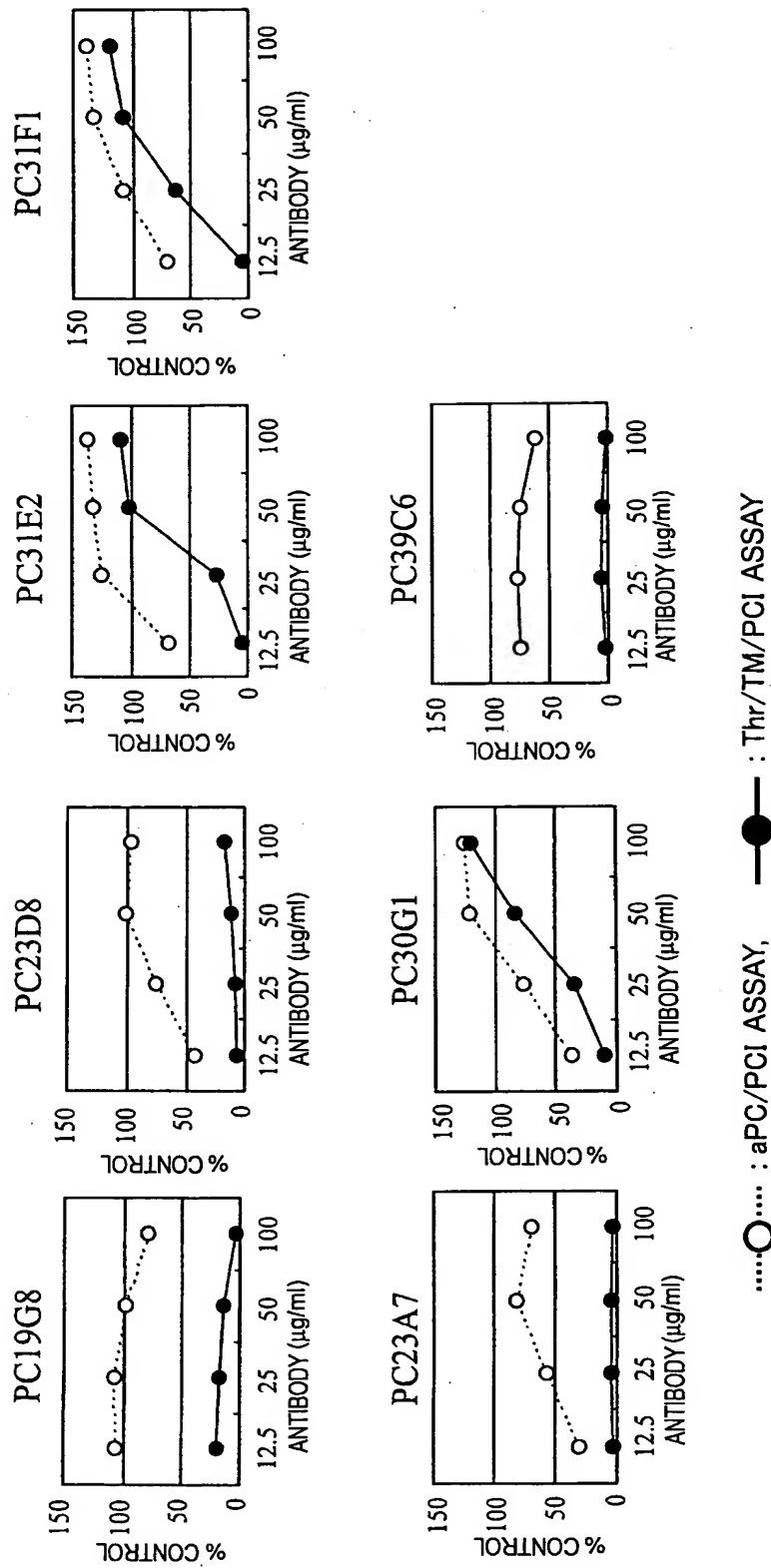


FIG. 4

CDR1		CDR2	
PC23D8	EVQLQQSGAELVKPGASVKLSCTASGFDIK	WVKRPEQGLEWIG	RIDYVNGNTKYDPPKFQG
PC19G8	EVQLQQSGAELVKPGASVKLSCTASGFDIK	WVKRPEQGLEWIG	RIDYVNGNTKYDPPKFQG
PC23A7	EVQLQQSGAELVKPGASVKLSCTASGFDIR	WVKRPEQGLEWIG	RIDLNVNNTKYDPPNFQD
PC39C6	EVQLQQSGAELVRPGALVKLSCKASGFNIK	WVKRPEQGLEWIG	RIDLEKGNII YDPKFQG
PC31F1	EVKLLESGGGLVQPGGSLKLSCAAASGFDIFS	WVRQAPGKGLEWIG	EINPDSSTINYTPSLKD
PC30G1	EVKLLESGGGLVQPGGSLKFSCEASGFDIFS	WVRQAPGKGLEWIG	EINPDSSTITYTSSSLKD
PC31E2	QVQLQQSGAELVKPGASVKMSCKAFGYTFT	WMKQNHGKSLEWIG	KFHPDNDDDTNYNEKFKG
CDR3			
PC23D8	KATITGDTSSNTAYLQLSSLTSEDYAVYYCAR	WGQGTLLTVSA	(SEQ ID NO : 8)
PC19G8	KATITGDTSSNTAYLQLSSLTSEDYAVYYCAR	WGQGTLLTVSA	(SEQ ID NO : 9)
PC23A7	RATITADTSSNTAYLQLSSLTSEDYAVYYCAR	WGQGTLLTVSA	(SEQ ID NO : 10)
PC39C6	KDNITADTSSNTAYLQLSSLTSEDYAVYYCAR	WGQGTLLTVSA	(SEQ ID NO : 11)
PC31F1	KFIISRDNAKKTLYLQMKNKVRSEDTALYYCAR	WGQGTLLTVSSA	(SEQ ID NO : 12)
PC30G1	RFIISRDNAKNTVYLQMSKVRSEDTALYYCAR	WGQGTLLTVSSA	(SEQ ID NO : 13)
PC31E2	KAKLTVEKSSSTVYLELSRLTSDSDSAVYYCAR	WGQGTSLTVSSA	(SEQ ID NO : 14)

FIG. 5

CDR1		CDR2	
PC23D8	QIVLTQSPAIMSASPGKVTITC	SATSSLIYMH	WFQQKPGSSPELWIY
PC19G8	QIVLTQSPAIMSASPGKVTITC	SATSSLIYMH	WFQQKPGSSPELWIY
PC23A7	QIVLTQSPAIMSASPGKVTITC	SATSSLIYMH	WFQQKPGTSPKLWIY
PC39C6	QIVLTQSPAIMSASPGKVTITC	SASSVSYMH	WFQQKPGTSPKLWIY
PC31F1	DIVMTQSHKFMASVGDVRSITC	KASQDVIVAVA	WYQQKPGQSPPELLIY
PC30G1	DIVMTQSHKFMSTSVGDVRSITC	KASQDVIKAVA	WYQQKPGQSPKLLIY
PC31E2	DIVLTQSPASLAVSLGQRATISC	KASQSVDDYDGD SYLN	WYQQKPGQPPKLLIY
STSNLASGVPA			
STSNLASGVPA			
STSNLASGVPA			
STSNLASGVPA			
SASYRYTGVPD			
STSYRYTGVPD			
GASNLESCTPA			
CDR3			
PC23D8	RFSGSGSGTSYSLTISRMEAEADAATYYCQ	RSSYPFT	FGSGTKLEIK (SEQ ID NO : 15)
PC19G8	RFSGSGSGTSYSLTISRMEAEADAATYYCQ	RSSYPFT	FGSGTKLEIK (SEQ ID NO : 16)
PC23A7	RFSGSGSGTSYSLTISRMEAEADAATYYCQ	RSSYPFT	FGSGTKLEIK (SEQ ID NO : 17)
PC39C6	RFSGSGSGTSYSLTISRMEAEADAATYYCQ	RSSYPFT	FGSGTKLEIK (SEQ ID NO : 18)
PC31F1	RFTGSGSGTDFTTITSSVQAEADLAVYYCQ	HYSSPPWT	FGGGTKLEIK (SEQ ID NO : 19)
PC30G1	RFSGSGSGTDFTTITSSVQAEADLAVYYCQ	HYSSPPWT	FGGGTKLEIK (SEQ ID NO : 20)
PC31E2	RFSGSGSGTDFTLDIHPVEEEDAATYYCQ	SNEDPPT	FGGGTKLEIT (SEQ ID NO : 21)

FIG. 6